

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

PCT To: HERBERT J. BARNHARDT, III SCIENTIFIC-ATLANTA, INC. ONE TECHNOLOGY PARKWAY SOUTH NORCROSS, GA 30092 NOTIFICATION OF TRANSMITTAL OF-RECEIVED INTERNATIONAL PRELIMINARY EXAMINATION REPORT DEC 20 1999 (PCT Rule 71.1) SCIENTIFIC-ATLANTA, INC. LEGAL DEPARTMENT Date of Mailing (day/month/year) Applicant's or agent's file reference IMPORTANT NOTIFICATION F-3472-PC Priority Date (day/month/year) International application No. International filing date (day/month/year) 31 JULY 1998 01 AUGUST 1997 PCT/US98/15985 Applicant SCIENTIFIC-ATLANTA, INC.

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/US

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FATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference F-3472-PC	FOR FURTHER ACTION	FION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)		
International application No.	International filing date (day/mo	c (day/month/year) Priority date (day/month/year)		
PCT/US98/15985	31 JULY 1998	01 AUGUST 1997		
International Patent Classification (IPC) IPC(6): H04N 7/167; H04L 9/32 and	or national classification and IP			
Applicant SCIENTIFIC-ATLANTA, INC.				
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. This REPORT consists of a total of sheets. This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority. 				
(see Rule 70.16 and Sec	tion 607 of the Administrative	Instructions under the PCT).		
These annexes consist of a to	otal of sheets.			
3. This report contains indication	ns relating to the following it	ems:		
I X Basis of the repo	rt			
II Priority	II Priority			
III Non-establishmer	nt of report with regard to no	velty, inventive step or industrial applicability		
IV Lack of unity of	IV Lack of unity of invention			
V X Reasoned statement citations and explain	V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; eitations and explanations supporting such statement			
VI X Certain documents				
VII Certain defects in t	VII Certain defects in the international application			
VIII X Certain observation				
Date of submission of the demand Date of completion of this report				
26 FEBRUARY 1999	29	NOVEMBER 1999		
Name and mailing address of the IPEA/US Commissioner of Patents and Trademarks		orized officer ILBERTO BARRÓN JR. JULYONUS OJAN		
Box PCT Washington, D.C. 20231	G	ILBERTO BARRÓN JR. July 100 100 100 100 100 100 100 100 100 10		
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International application No.
PCT/US98/15985

I. Basis of the report				
1. This report has been drawn on the basis of (Substitute sheets which have been furnished to the receiving Office in response to an invitation				
under Article 1	•		are not annexed to the report since they do not contain amendments):	
X	the internationa	l application as origin	ally filed.	
X	the description,	pages <u>1-78</u>	, as originally filed.	
		= -	, filed with the demand.	
			, filed with the letter of	
		pages	, filed with the letter of	
x	the claims,	Nos. <u>1-18</u>	_ , as originally filed.	
		Nos. NONE	_ , as amended under Article 19.	
		Nos. <u>NONE</u>	_ , filed with the demand.	
			, filed with the letter of	
		Nos	_ , filed with the letter of	
x	the drawings,	sheets /fig 1-21	, as originally filed.	
LA.			, filed with the demand.	
		sheets/fig NONE	, filed with the letter of	
	•	sheets /fig	, filed with the letter of	
X the description, pages NONE X the claims, Nos. NONE X the drawings, sheets/fig NONE This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box Additional observations below (Rule 70.2(c)). 4. Additional observations, if necessary: NONE				
			•	

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V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

		11 0		
1	. STATEMENT			
	Novelty (N)	Claims	3, 8, 9, 12, 13, 14, 17 and 18	YES
	• • •	Claims	1, 2, 4-7, 10, 11, 15 and 16	NO
	Inventive Step (IS)	Claims	8, 13 and 17	YES
	inventive step (18)	Claims	1-7, 9-12, 14-16 and 18	NO
	Industrial Applicability (l	(A) Claims	1-18	YES
		Claims	NONE	NO

2. CITATIONS AND EXPLANATIONS

Claims 1, 2, 4-7, 10, 11, 15 and 16 lack novelty under PCT Article 33(2) as being anticipated by Bestler et al.

The Bestler patent discloses a conditional access system having a subscriber authorization bit map and an authorization list that meets the elements of claims 1 and 10, see column 4, lines 24-26. Column 5, lines 50-60 describe an operation uses the representation of entitlements described above for determining whether a subscriber has the entitlement value for the given instance to met dependent claims 2, 4-7, 11, 15 and 16. See column 4, lines 59-67 for the operation of setting the entitlement value and the map.

Claims 3 and 12 lack an inventive step under PCT Article 33(3) as being obvious over Bestler et al in view of Jeffers et al. Jeffers discloses a bit map having single bit elements representing the state of an entitlement value, see column 4, lines 10-11. To provide for representing entitlement state values by single-bit elements would not involve an inventive step as Jeffers teaches such memory maps ore known to represent entitlement values in conditional access systems.

Claims 9 and 14 an inventive step under PCT Article 33(3) as being obvious over Bestler et al. in view of Bennett et al. Bennett teaches a conditional access system having entitlement values and operation limited by time values, see column 17, lines 43-45. To provide for entitlement values having time values would not involve an inventive step as Bennett teaches that time limiting values are used in conditional access systems.

Claim 18 lacks an inventive step under PCT Article 33(3) as being obvious over Bestler et al in view of Coutrot et al.

Coutrot teaches a conditional access system wherein entitlement values are authenticated by digital signature, see column 5, lines 39-52. To use digital signatures for authenticating the entitlement values would not involve an inventive step as Coutrot teaches it is known to limit entitlements by time values in conditional access systems.

(Continued on Supplemental Sheet.)

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VI	. Certain documents cit	ied			
1.	. Certain published documents (Rule 70.10)				
	Application No. Patent No.	Publication (day/mon		Filing Date (day/ month/ year)	Priority date (valid claim) (day/ month/ year)
	US, A, 5,742,677	21 APR	1998	.03 APR 1995	NONE
		•			
	•				
2.	Non-written disclosures	(Rule 70.9)	TO TO		
	Kind of non-written disc	closure	Date of not	n-written disclosure	Date of written disclosure referring to non-written disclosure (day/ month/ year)
				-	

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VIII. Certain observations on the international application The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: Claim 3 is objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because the claim is indefinite for the following reason(s): There is no antecedent basis for "the array".

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Sun	nlem	ental	Box
Dup	DIVI	CIPPER	

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 10

V. 2. REASONED STATEMENTS - CITATIONS AND EXPLANATIONS (Continued):

Claims 8, 13 and 17 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest the operations of an entitlements agent as recited in the instant claims.

US 5,036,537 A (Jeffers et al) 30 JULY 1991, see column 4, lines 10-11.

US 4,864,615 A (Bennett et al) 05 SEPTEMBER 1989, see column 17, lines 43-45.

US 5,301,233 A (Coutrot et al) 05 APR. 1994 see column 5, lines 39-52.